PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		FOR FURTHER ACT	ON	See Form PCT/IPEA/416		
10303-62177		<u></u>				
International applica	ation No.	International filing date (da	y/month/year)	Priority date (day/month/year)		
PCT/US05/02807		31 January 2005 (31.01.20)	05)	29 January 2004 (29.01.2004)		
		or national classification and	•			
USPC: 165/219,2	0(2006.01); F24H 7/0 18,220,221,236,50	4(2006.01); F25B 29/00 (200	06.01) 			
Applicant				`		
COMEAUX, VERN						
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This RI	2. This REPORT consists of a total of $\mathring{\Psi}$ sheets, including this cover sheet.					
3. This re	port is also accomp	anied by ANNEXES, com	prising:			
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:						
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
4. This re	port contains indica	ations relating to the follow	ving items:			
<u> </u>		asis of the report				
	Box No. II Pr	riority				
		on-establishment of opinio	on with regard to no	velty, inventive step and industrial		
	Box No. IV	ack of unity of invention	٠.			
	Box No. V R	easoned statement under	Article 35(2) with tions and explanation	n regard to novelty, inventive step or ns supporting such statement		
		ertain documents cited		·		
	Box No. VII C	ertain defects in the intern	ational application	•		
	Box No. VIII C	ertain observations on the	international applic	ation.		
Date of submission of the demand		Date of completion	of this report			
29 August 2005 (29.08.2005)			13 June 2008 (13.06.	2008)		
Name and mailing address of the IPEA/ US			Authorized officer	<i>)</i>		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents			John K. Fond			
P.O. Box 1450 Alexandria, Virginia 22313-1450			10	200.0071		
Facsimile No. (571) 273-3201			Telephone No. 703-	308-0861		

Form PCT/IPEA/409 (cover sheet)(April 2007)

PCT/US2005/002807 24.07.2008

[-	International application l	No.
	PCT/US05/02807	

Вс	x No.	. 1	Basis of the report
<u>i.</u>	With	reg	ard to the language, this report is based on:
•	\boxtimes	_	international application in the language in which it was filed.
			anslation of the international application into English, which is the language of a translation furnished for the poses of:
			international search (under Rules 12.3(a) and 23.1(b))
		\vdash	publication of the international application (under Rule 12.4(a))
			international preliminary examination (under Rules 55.2(a) and/or 55.3(a))
2.	to the	rec	ed to the elements of the international application, this report is based on (replacement sheets which have been furnished eiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not to this report):
		the	international application as originally filed/furnished
	\boxtimes		description:
			es 1-14 as originally filed/furnished es* NONE received by this Authority on
			es* NONE received by this Authority on received by the receive
	\square		
	\boxtimes		claims: es NONE as originally filed/furnished
		pag	es* NONE as amended (together with any statement) under Article 19
			es* 1-3 received by this Authority on 29 August 2005 (29.08.2005)
•		pag	es* NONE received by this Authority on
	\boxtimes	the	drawings:
			es 1/8-8/8 as originally filed/furnished
			es* NONE received by this Authority on received by the receive
			· · · · · · · · · · · · · · · · · · ·
	Ш	a se	equence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	\boxtimes	The	e amendments have resulted in the cancellation of:
			the description, pages
		\geq	the claims, Nos. 5
			the drawings, sheets/figs
			the sequence listing (specify):
,			any table(s) related to the sequence listing (specify):
4.		Thi	s report has been established as if (some of) the amendments annexed to this report and listed below had not been made, see they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
			the description, pages
			the claims, Nos.
			the drawings, sheets/figs
			the sequence listing (specify):
			any table(s) related to the sequence listing (specify):
5.			is report has been established taking into account the rectification of an obvious mistake authorized by or notified to this
ı		.Au	thority under Rule 91 (Rule 70.2(e)). pplies, some or all of those sheets may be marked "superseded."
			pplies, some or all of those sheets may be marked superseded. (A/409 (Box No. I) (April 2007)

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US05/02807

	le 35(2) with regard to novelty, inventive step on nations supporting such statement	r industrial
1. Statement		
Novelty (N)	Claims 2, 3, 4, 7, 8, 9 and 11-15	YES
Novelly (N)	Claims 1, 6 and 10	NO
Inventive Step (IS)	Claims 11-15	
	Claims 1-4 and 6-10	NO
Industrial Applicability (IA)	Claims 1-4 and 6-15	YES
	Claims NONE	NO
teaches a total of four two-way valves 44, 46, 48 and 5 way valves 18 and 100 of Newton with four two-way perform the same function. Claims 2, 3, 7 and 8 lack an inventive step under PCT (Figure 6). Tamblyn 1992 discloses a cylindrical tank	cle 33(3) as being obvious over Newton in view of Tan 50 to feed hot and cold water from a partitioned tank. Valves would have been obvious to one of ordinary skill Article 33(3) as being obvious over Newton in view of (Fig. 2) and plural tanks (Fig. 9). That have a piston 3 essentially the same thing. To have used this type of tanks are been obvious to one of ordinary skill in the art.	Tamblyn '992 or Yamaoka of that separates the two
Claims 11-15 meet the criteria set out in PCT Article connection with the supply line of the two-pipe hydro	33(2)-(3), because the prior art does not teach or fairly nic air-conditioning system.	suggest the series
Claims 1-4 and 6-15 meet the criteria set out in PCT A claimed can be made or used in industry.	Article 33(4), and thus satisify industrial applicability b	ecause the subject matter
NEW CITATIONS		
	•	
		•

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/US05/02807

BOX NO. VII	Certain defects in the international application	
		-

The following defects in the form or contents of the international application have been noted:

Claims 10 and 15 (as amended under Article 34) both depend from cancelled claim 5. For purposes of examination both of these claims were assumed to depend from any one of claims 1-4.

Form PCT/IPEA/409 (Box No. VII) (April 2007)